

RAN-2503000504038001

S.Y.B.Sc. (NEP) Sem.-IV) Examination April - 2026

Bioscience (Microbiology) - Medical Physiology (Major : BM-MJ-403)

Time: 2 Hours]

[Total Marks: 50

સૂચના : / Instructions (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી. Fill up strictly the above details on your answer book (2) Figures to the right indicate full marks. (3) Draw neat & clean diagram wherever necessary.	Seat No.: <table style="width: 100%; text-align: center;"> <tr> <td style="border: 1px solid black; width: 30px; height: 40px;"></td> <td style="border: 1px solid black; width: 30px; height: 40px;"></td> <td style="border: 1px solid black; width: 30px; height: 40px;"></td> <td style="border: 1px solid black; width: 30px; height: 40px;"></td> <td style="border: 1px solid black; width: 30px; height: 40px;"></td> <td style="border: 1px solid black; width: 30px; height: 40px;"></td> </tr> </table> Student's Signature						

Q.1. Multiple choice questions: (Any Ten)

10

- Which among the following is the pouch like masculine bag?
 - Esophagus
 - Pancreas
 - Liver
 - None
- Peyer's patches is present in _____
 - Stomach
 - Pancreas
 - Liver
 - Duodenum
- An example of digestive juice is _____
 - Sputum
 - Sweat
 - Saliva
 - All
- _____ is exocrine gland
 - Salivary gland
 - Liver
 - Lacrimal gland
 - All
- Capsule is seen in _____
 - Kidneys
 - Adrenal gland
 - Pancreas
 - Stomach
- Cowper's gland is present in _____
 - Male reproductive system
 - Female reproductive system
 - Male respiratory system
 - None
- Which of the following is a function of hypothalamus?
 - Regulation of blood pressure
 - Regulation of water balance
 - Regulation of body temperature
 - All

8. GnRH directly stimulates release of _____
 - a. FSH
 - b. Progesterone
 - c. Estrogens
 - d. Thyrocalcitonin
9. Which of the following is an example of types of messenger?
 - a. Paracrine
 - b. Autocrine
 - c. Neurocrine
 - d. All
10. Which of the following is an example of tropical hormone?
 - a. GH
 - b. TRH
 - c. ADH
 - d. ACTH
11. Which of these diseases is not related to thyroid glands?
 - a. Cretinism
 - b. Myxoedema
 - c. Goiter
 - d. Acromegaly
12. Which of the following is hypopituitarism?
 - a. Acromegaly
 - b. Dwarfism
 - c. Goiter
 - d. All

Q.2. Answer the following.(Any Two) 10

1. Draw neat & labelled diagram of Liver.
2. Draw neat & labelled diagram of TS of Stomach
3. Describe in brief wall of alimentary tract.

Q.3. Answer the following questions. (Any Two) 10

1. Write a detail note on Nephron.
2. Draw a neat & labelled diagram of Liver
3. Draw a neat & labelled diagram of TS of male gonad.

Q.4. Write an essay on - Hormone. 10

OR

Q.4. Answer the following. 10

1. Write a note on - Neurohormone
2. Describe in brief physiological aspects of hypothalamus

Q.5. Write a detail note on - Microscopic organization of Hypophysis. 10

OR

Q.5. Answer the following questions. 10

1. Draw a neat & labelled diagram of TS of adrenal gland.
2. Write a note on hormones of anterior pituitary gland.